

Titles of most frequently occurring classifications of patents returned
from a search of 10587241 on Mar 25, 2009

18 704/260 (14 OR, 4 XR)
 Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING; LINGUISTICS,
 LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
 704/200 . SPEECH SIGNAL PROCESSING
 704/258 .. Synthesis
 704/260 ... Image to speech

10 704/258 (5 OR, 5 XR)
 Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING; LINGUISTICS,
 LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
 704/200 . SPEECH SIGNAL PROCESSING
 704/258 .. Synthesis

5 704/E13.004 (0 OR, 5 XR)
 Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING; LINGUISTICS,
 LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
 704/E13.001 . SPEECH SYNTHESIS; TEXT TO SPEECH SYSTEMS (EPO)
 704/E13.002 .. Methods for producing synthetic speech; speech
 synthesizers (EPO)
 704/E13.004 ... Sound editing, manipulating voice of the synthesizer
 (EPO)

5 704/219 (1 OR, 4 XR)
 Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING; LINGUISTICS,
 LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
 704/200 . SPEECH SIGNAL PROCESSING
 704/201 .. For storage or transmission
 704/219 ... Linear prediction

5 704/270 (0 OR, 5 XR)
 Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING; LINGUISTICS,
 LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
 704/200 . SPEECH SIGNAL PROCESSING
 704/270 .. Application

4 704/E13.011 (0 OR, 4 XR)
 Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING; LINGUISTICS,
 LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
 704/E13.001 . SPEECH SYNTHESIS; TEXT TO SPEECH SYSTEMS (EPO)
 704/E13.011 .. Text analysis, generation of parameters for speech
 synthesis out of text, e.g., grapheme to phoneme translation, prosody generation,
 stress, or intonation determination, etc. (EPO)

4 704/268 (1 OR, 3 XR)
 Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING; LINGUISTICS,
 LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
 704/200 . SPEECH SIGNAL PROCESSING
 704/258 .. Synthesis
 704/268 ... Frequency element

4 704/E13.013 (0 OR, 4 XR)
 Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING; LINGUISTICS,
 LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
 704/E13.001 . SPEECH SYNTHESIS; TEXT TO SPEECH SYSTEMS (EPO)
 704/E13.011 .. Text analysis, generation of parameters for speech
 synthesis out of text, e.g., grapheme to phoneme translation, prosody generation,
 stress, or intonation determination, etc. (EPO)
 704/E13.013 ... Prosody rules derived from text (EPO)

- 4 704/262 (0 OR, 4 XR)
 Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
 LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
 704/200 . SPEECH SIGNAL PROCESSING
 704/258 .. Synthesis
 704/262 ... Linear prediction
- 4 704/223 (0 OR, 4 XR)
 Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
 LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
 704/200 . SPEECH SIGNAL PROCESSING
 704/201 .. For storage or transmission
 704/221 ... Pattern matching vocoders
 704/223 ... Excitation patterns
- 4 704/E13.008 (0 OR, 4 XR)
 Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
 LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
 704/E13.001 . SPEECH SYNTHESIS; TEXT TO SPEECH SYSTEMS (EPO)
 704/E13.005 .. Details of speech synthesis systems, e.g., synthesizer
 architecture, memory management, etc. (EPO)
 704/E13.008 ... Systems using speech synthesizers (EPO)
- 3 704/200 (3 OR, 0 XR)
 Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
 LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
 704/200 . SPEECH SIGNAL PROCESSING
- 3 704/E19.02 (0 OR, 3 XR)
 Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
 LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
 704/E19.001 . SPEECH OR AUDIO SIGNAL ANALYSIS-SYNTHESIS TECHNIQUES FOR
 REDUNDANCY REDUCTION, E.G., IN VOCODERS, ETC.; CODING OR DECODING OF SPEECH OR AUDIO
 SIGNALS; COMPRESSION OR EXPANSION OF SPEECH OR AUDIO SIGNALS, E.G., SOURCE-FILTER
 MODELS, PSYCHOACOUSTIC ANALYSIS, ETC. (EPO)
 704/E19.01 .. Using spectral analysis, e.g., transform vocoders, subband
 vocoders, perceptual audio coders, psychoacoustically based lossy encoding, etc.,
 e.g., MPEG audio, Dolby AC-3, etc. (EPO)
 704/E19.02 ... Using orthogonal transformation (EPO)
- 3 704/220 (2 OR, 1 XR)
 Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
 LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
 704/200 . SPEECH SIGNAL PROCESSING
 704/201 .. For storage or transmission
 704/220 ... Analysis by synthesis
- 3 704/266 (1 OR, 2 XR)
 Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
 LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
 704/200 . SPEECH SIGNAL PROCESSING
 704/258 .. Synthesis
 704/266 ... Specialized model
- 3 704/264 (3 OR, 0 XR)
 Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
 LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
 704/200 . SPEECH SIGNAL PROCESSING
 704/258 .. Synthesis
 704/264 ... Excitation
- 3 704/E13.007 (0 OR, 3 XR)
 Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,

LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
 704/E13.001 ..SPEECH SYNTHESIS; TEXT TO SPEECH SYSTEMS (EPO)
 704/E13.005 ..Details of speech synthesis systems, e.g., synthesizer
 architecture, memory management, etc. (EPO)
 704/E13.007 ...Excitation (EPO)

3 704/E13.009 (0 OR, 3 XR)

CLASS 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
 LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
 704/E13.001 ..SPEECH SYNTHESIS; TEXT TO SPEECH SYSTEMS (EPO)
 704/E13.009 ..Elementary speech units used in speech synthesizers;
 concatenation rules (EPO)

3 704/267 (0 OR, 3 XR)

CLASS 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
 LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
 704/200 ..SPEECH SIGNAL PROCESSING
 704/258 ..Synthesis
 704/267 ...Time element

3 704/E13.003 (0 OR, 3 XR)

CLASS 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
 LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
 704/E13.001 ..SPEECH SYNTHESIS; TEXT TO SPEECH SYSTEMS (EPO)
 704/E13.002 ..Methods for producing synthetic speech; speech
 synthesizers (EPO)
 704/E13.003 ...Concept-to-speech synthesizers; generation of natural
 phrases not from text but from machine-based concepts (EPO)

2 704/200.1 (1 OR, 1 XR)

CLASS 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
 LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
 704/200 ..SPEECH SIGNAL PROCESSING
 704/200.1 ..Psychoacoustic

2 704/E19.035 (0 OR, 2 XR)

CLASS 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
 LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
 704/E19.001 ..SPEECH OR AUDIO SIGNAL ANALYSIS-SYNTHESIS TECHNIQUES FOR
 REDUNDANCY REDUCTION, E.G., IN VOCODERS, ETC.; CODING OR DECODING OF SPEECH OR AUDIO
 SIGNALS; COMPRESSION OR EXPANSION OF SPEECH OR AUDIO SIGNALS, E.G., SOURCE-FILTER
 MODELS, PSYCHOACOUSTIC ANALYSIS, ETC. (EPO)
 704/E19.023 ..Using predictive techniques; codecs based on source-filter
 modelization (EPO)
 704/E19.026 ...Determination or coding of the excitation function;
 determination or coding of the long-term prediction characteristics (EPO)
 704/E19.035 ...Determination or coding of a code excitation; code
 excited linear prediction (CELP) vocoders (EPO)

2 704/E13.012 (0 OR, 2 XR)

CLASS 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
 LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
 704/E13.001 ..SPEECH SYNTHESIS; TEXT TO SPEECH SYSTEMS (EPO)
 704/E13.011 ..Text analysis, generation of parameters for speech
 synthesis out of text, e.g., grapheme to phoneme translation, prosody generation,
 stress, or intonation determination, etc. (EPO)
 704/E13.012 ...Grapheme to phoneme, detection of language (EPO)

2 704/203 (1 OR, 1 XR)

CLASS 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
 LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
 704/200 ..SPEECH SIGNAL PROCESSING
 704/201 ..For storage or transmission

704/203 ... Transformation

2 704/222 (1 OR, 1 XR)

Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
 LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
 704/200 . SPEECH SIGNAL PROCESSING
 704/201 .. For storage or transmission
 704/221 ... Pattern matching vocoders
 704/222 Vector quantization

2 704/E19.041 (0 OR, 2 XR)

Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
 LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
 704/E19.001 . SPEECH OR AUDIO SIGNAL ANALYSIS-SYNTHESIS TECHNIQUES FOR
 REDUNDANCY REDUCTION, E.G., IN VOCODERS, ETC.; CODING OR DECODING OF SPEECH OR AUDIO
 SIGNALS; COMPRESSION OR EXPANSION OF SPEECH OR AUDIO SIGNALS, E.G., SOURCE-FILTER
 MODELS, PSYCHOACOUSTIC ANALYSIS, ETC. (EPO)
 704/E19.023 .. Using predictive techniques; codecs based on source-filter
 modelization (EPO)
 704/E19.039 ... Details of speech and audio coders (EPO)
 704/E19.04 Vocoder architecture (EPO)
 704/E19.041 Vocoders using multiple modes (EPO)

2 704/265 (1 OR, 1 XR)

Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
 LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
 704/200 . SPEECH SIGNAL PROCESSING
 704/258 .. Synthesis
 704/265 ... Interpolation

2 704/218 (1 OR, 1 XR)

Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
 LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
 704/200 . SPEECH SIGNAL PROCESSING
 704/201 .. For storage or transmission
 704/211 ... Time
 704/216 Correlation function
 704/218 Cross-correlation

2 704/221 (0 OR, 2 XR)

Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
 LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
 704/200 . SPEECH SIGNAL PROCESSING
 704/201 .. For storage or transmission
 704/221 ... Pattern matching vocoders

2 704/235 (0 OR, 2 XR)

Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
 LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
 704/200 . SPEECH SIGNAL PROCESSING
 704/231 .. Recognition
 704/235 ... Speech to image

2 704/261 (1 OR, 1 XR)

Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
 LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
 704/200 . SPEECH SIGNAL PROCESSING
 704/258 .. Synthesis
 704/261 ... Vocal tract model

2 704/E13.002 (0 OR, 2 XR)

Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
 LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION

704/E13.001 .SPEECH SYNTHESIS; TEXT TO SPEECH SYSTEMS (EPO)
 704/E13.002 ..Methods for producing synthetic speech; speech
 synthesizers (EPO)

2 704/500 (2 OR, 0 XR)
 Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
 LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
 704/500 .AUDIO SIGNAL BANDWIDTH COMPRESSION OR EXPANSION

2 704/E21.011 (0 OR, 2 XR)
 Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
 LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
 704/E21.001 .MODIFICATION OF AT LEAST ONE CHARACTERISTIC OF SPEECH WAVES
 (EPO)
 704/E21.002 ..Speech enhancement, e.g., noise reduction, echo
 cancellation, etc. (EPO)
 704/E21.003 ...Applications (EPO)
 704/E21.009Enhancement of intelligibility of clean or coded speech
 (EPO)
 704/E21.011Bandwidth extension taking place at the receiving side,
 e.g., generation of low- or high-frequency components, regeneration of spectral
 holes, etc. (EPO)

2 704/E13.006 (0 OR, 2 XR)
 Class 704 DATA PROCESSING: SPEECH SIGNAL PROCESSING, LINGUISTICS,
 LANGUAGE TRANSLATION, AND AUDIO COMPRESSION/DECOMPRESSION
 704/E13.001 .SPEECH SYNTHESIS; TEXT TO SPEECH SYSTEMS (EPO)
 704/E13.005 ..Details of speech synthesis systems, e.g., synthesizer
 architecture, memory management, etc. (EPO)
 704/E13.006 ...Architecture of speech synthesizers (EPO)

2 455/66.1 (1 OR, 1 XR)
 Class 455 TELECOMMUNICATIONS
 455/39 .TRANSMITTER AND RECEIVER AT SEPARATE STATIONS
 455/66.1 ..Having diverse art device

2 707/E17.009 (0 OR, 2 XR)
 Class 707 DATA PROCESSING: DATABASE AND FILE MANAGEMENT OR DATA
 STRUCTURES
 707/E17.001 .INFORMATION RETRIEVAL; DATABASE STRUCTURES THEREFORE (EPO)
 707/E17.009 ..Information processing systems, e.g., multimedia systems,
 etc. (EPO)